

Issuance Date: June 15, 2006  
Effective Date: July 1, 2006  
Expiration Date: June 30, 2011

STATE WASTE DISCHARGE PERMIT NUMBER ST 5380

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
Eastern Regional Office

In compliance with the provisions of the  
State of Washington Water Pollution Control Law  
Chapter 90.48 Revised Code of Washington, as amended,  
authorizes

City of Warden  
P. O. Box 428  
Warden, WA 99857

to discharge wastewater in accordance with the special and general conditions which follow.

Plant Location: Approx. ¼ mile N.E. of the  
city; North of State Highway 170

Treatment Type Publicly Owned Treatment  
Works - Facultative lagoons with Spray  
irrigation

Discharge Location:

Legal Description: Approx. 32 acres; NE¼ of  
the SE¼ of Sec. 10, and the W¼ of the SW¼ of  
Sec. 11, T. 17N, R. 30 E. W.M.

Latitude: 46° 58' 33" N  
Longitude: 119° 01' 28" W

---

James M. Bellatty  
Water Quality Section Manager  
Eastern Regional Office  
Washington State Department of Ecology

## TABLE OF CONTENTS

SUMMARY OF PERMIT REPORT SUBMITTALS.....	4
<b>SPECIAL CONDITIONS</b>	
S1. DISCHARGE LIMITATIONS.....	5
S2. SCHEDULE FOR COMPLIANCE.....	6
S3. MONITORING REQUIREMENTS.....	6
A. Wastewater Monitoring	
B. Wastewater, Canal Water and Ground Water Monitoring	
C. Semi-Annual Monitoring Soil Monitoring	
D. Crop Monitoring	
E. Sampling and Analytical Procedures	
F. Flow Measurement	
G. Laboratory Accreditation	
S4. REPORTING AND RECORDKEEPING REQUIREMENTS .....	10
A. Reporting	
B. Records Retention	
C. Recording of Results	
D. Additional Monitoring by the Permittee	
E. Noncompliance Notification	
F. Maintaining a Copy of This Permit	
S5. FACILITY LOADING .....	12
A. Design Criteria	
B. Plans for Maintaining Adequate Capacity	
C. Wasteload Assessment	
S6. OPERATION AND MAINTENANCE.....	13
A. Certified Operator	
B. O & M Program	
C. Short-term Reduction	
D. Electrical Power Failure	
E. Prevent Connection of Inflow	
F. Bypass Procedures	
G. Operations and Maintenance Manual	
H. Irrigation Land Application	
S7. RESIDUAL SOLIDS.....	16
S8. PRETREATMENT .....	16
A. Discharge Authorization Required	
B. Prohibitions	
C. Notification of Industrial User Violations	
D. Industrial User Survey	
E. Local Sewer Ordinance	

S9. IRRIGATION AND CROP MANAGEMENT PLAN.....18

    A. Annual Summary of Farm Operations for Previous Year

    B. Cropping Schedule for Upcoming Year

**GENERAL CONDITIONS**

G1. SIGNATORY REQUIREMENTS.....20

G2. RIGHT OF ENTRY .....20

G3. PERMIT ACTIONS.....21

G4. REPORTING A CAUSE FOR MODIFICATION .....21

G5. NOTIFICATION OF NEW OR ALTERED SOURCES .....21

G6. PLAN REVIEW REQUIRED .....21

G7. COMPLIANCE WITH OTHER LAWS AND STATUTES.....21

G8. DUTY TO REAPPLY .....22

G9. PAYMENT OF FEES.....22

G10. PENALTIES FOR VIOLATING PERMIT CONDITIONS .....22

**SUMMARY OF PERMIT REPORT SUBMITTALS**

Refer to the Special and General Conditions of this permit for additional submittal requirements.

<b>Permit Section</b>	<b>Submittal</b>	<b>Frequency</b>	<b>First Submittal Date</b>
S3.A.	Discharge Monitoring Report	Monthly	August 15, 2006
S4.C.	Wasteload Assessment	1/year	April 1, 2007
S5.G.	Operations and Maintenance Manual	1/permit cycle	June 30, 2007
S7.D.	Industrial User Survey	1/permit cycle	June 30, 2009
S7. E.	Local Sewer Ordinance	1/permit cycle	June 30, 2009
S8.	Irrigation and Crop Management Plan	1/permit cycle	April 1, 2009
G8.	Application for permit renewal	1/permit cycle	January 2, 2011

## SPECIAL CONDITIONS

### S1. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to apply wastewater to land via spray irrigation at agronomic rates, rates in the engineering report, rates in irrigation and crop management plan on the following designated irrigation lands:

Approximately 32 acres located northeast of the city of Warden, and the NE¼ of the SE¼ of Sec. 10, and the W¼ of the SW¼ of Sec. 11, T. 17N, R. 30 E. W.M

Total nitrogen and water applied to the irrigation lands shall not exceed the crop requirements as determined by the Permittee's Irrigation and Crop Management Plan, Condition S8. Discharges shall be subject to the following limitations:

	EFFLUENT LIMITATIONS	
Parameter	Average Monthly <sup>a</sup>	Maximum Daily <sup>b</sup>
Flow		250,000 GPD
BOD <sub>5</sub>	45 mg/L	65 mg/L
TSS	45 mg/L	65 mg/L
Fecal Coliform	200/100 mL	400/100 mL
pH	Shall not be outside the range of 6.0 to 9.0 s.u.	
<sup>a</sup> The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
<sup>b</sup> The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day.		

## S2. SCHEDULE FOR COMPLIANCE

The Permittee shall complete construction of the proposed Water Reclamation and Reuse facility and infiltration basins and achieve full operation according to the following schedule:

Complete Funding Package and Advertise for Bids .....September 30, 2007  
Award Construction Bids.....March 31, 2008  
Complete Construction .....December 31, 2009  
Facility Fully Operational .....June 30, 2010

A new permit will be developed and issued prior to completion of construction of the Water Reclamation and Reuse facility as per RCW 90.48 and RCW 90.46, and in compliance with the laws and regulations of the Washington State Department of Health.

## S3. MONITORING REQUIREMENTS

### A. Wastewater Monitoring

The sampling point for the influent will be at headworks.

The sampling point for the effluent from the above ground treatment works will be at the end of the storage pond pipe prior to discharging to the sprayfields.

The Permittee shall monitor the wastewater according to the following schedule:

Parameter	Units	Sample Point	Sampling Frequency	Sample Type
Flow	gpd; gpd	Influent; final effluent <sup>b</sup>	Continuous <sup>a</sup> Continuous <sup>a</sup>	recording recording
BOD	mg/l, lbs/day; mg/L	Influent; final effluent <sup>b</sup>	1/week 1/week	24-hr composite 24-hr composite
TSS	mg/l, lbs/day; mg/L	Influent; final effluent <sup>b</sup>	1/week 1/week	24-hr composite 24-hr composite
Fecal Coliform	#/100 mL	final effluent <sup>b</sup>	1/week	grab
pH	Standard Units	Influent; plant effluent <sup>c</sup>	5/week 5/week	grab grab
TKN (as N)	mg/l	final effluent <sup>b</sup>	1/month	grab
NO <sub>3</sub> + NO <sub>2</sub> (as N)	mg/l	final effluent <sup>b</sup>	1/month	grab
NH <sub>3</sub> (as N)	mg/l	final effluent <sup>b</sup>	1/month	grab
Total Nitrogen <sup>d</sup>	mg/l	final effluent <sup>b</sup>	1/month	Calculated
Total Dissolved Fixed Solids	mg/l	final effluent <sup>b</sup>	1/month	grab
Chloride	mg/l	final effluent <sup>b</sup>	1/month	grab

Parameter	Units	Sample Point	Sampling Frequency	Sample Type
Sulfate	mg/l	final effluent <sup>b</sup>	1/month	grab
Sludge Depth <sup>c</sup>	Ft	Each lagoon Storage Pond	1/year; 1/permit cycle	Measurement; Measurement
<sup>a</sup> Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. A manual composite of at least four (4) separate samples collected during an eight-hour day shall be taken when continuous monitoring is not possible.				
<sup>b</sup> Final effluent is defined as the wastewater that is applied to the sprayfield. Sample collection is only required during irrigation. Otherwise, see Section S3.A.				
<sup>c</sup> Plant effluent is defined as the wastewater that is discharged from the facultative lagoons to the irrigation storage pond (fourth lagoon).				
<sup>d</sup> Total Nitrogen = TKN + NO <sub>3</sub> + NO <sub>2</sub>				
<sup>e</sup> A sufficient number of measurements shall be taken in each lagoon to determine a reasonable estimate of the sludge depth. Several sludge depths shall be taken in the vicinity of the influent structure to each lagoon and the storage pond.				

**B. Wastewater, Canal Water and Ground Water Monitoring**

The Permittee shall monitor the following three items according to the schedule listed in the table below:

- 1) the wastewater in the four treatment lagoons,
- 2) the groundwater seepage area north east of the lagoons as identified in the Facility Plan, and
- 3) the USBR East Low Canal downstream of the lagoons when flowing irrigation water is present

The permittee shall develop a Stiff Diagram (see Fact Sheet Appendix C for example) using the wastewater, seepage area, and canal monitoring data. The plotted data will show graphically the relationship of the seepage area water and canal water to the wastewater in the lagoons.

Parameter	Units	Sampling Frequency	Sample Type
Cations and anions <sup>a</sup>	Mg/L, meq/L	Quarterly <sup>b</sup>	grab
Electrical Conductivity	Micromho/cm	Quarterly <sup>b</sup>	grab
Fecal Coliform	#/100 mL	Quarterly <sup>b</sup>	grab
E. Coli	#/100 mL	Quarterly <sup>b</sup>	grab
<sup>a</sup> Cations (Mg, Ca, K, Na) and anions (HCO <sub>3</sub> , Cl, SO <sub>4</sub> )			
<sup>b</sup> Quarterly (Jan.-Mar., Apr.-June, July-Sept.-Oct.-Dec.)			
<sup>c</sup> Electrical conductivity, fecal coliform, and E. Coli shall be sampled in the canal upstream (Road 8 SE) and downstream (Road U SE) of the lagoon and irrigation site.			

C. Semi-Annual Monitoring Soil Monitoring

The Permittee shall perform soil monitoring on the irrigation lands twice per year. These sampling sites shall be located so as to be representative of each irrigation site or as represented in the crop management plan. If possible, sampling sites shall remain in the same vicinity from year to year. Testing at each sampling site shall be done on one foot soil increments. Results shall be submitted annually with the annual Irrigation and Crop Management Plan.

Composite samples will be for three depths [0-12"; 12-24"; 60-72" (or until auger refusal)] and will be from a minimum of four (4) cores. Samples will be collected at a time that best represents soil conditions at the beginning and end of the crop growing season.

The Permittee shall monitor the soils in the center pivot sprayfields according to the following schedule:

Parameter	Units	Sample Point	Depth Increments <sup>1</sup>
Exchangeable sodium Percentage	%	Each field	1, 2, 6
Cation exchange capacity	meq/100g	"	"
Organic matter	%	"	"
Moisture content	%	"	"
TKN (as N)	mg/Kg (dry Wt)	"	"
NO <sub>3</sub> (as N)	mg/Kg (dry Wt)	"	"
NH <sub>3</sub> (as N)	mg/Kg (dry Wt)	"	"
Conductivity	mhos/cm	"	"
Sodium	meq/100g	"	"
Calcium	meq/100g	"	"
Magnesium	meq/100g	"	"
Potassium	mg/Kg (dry Wt)	"	"
Sulfate (as S)	mg/Kg (dry Wt)	"	"
pH	s.u.	"	"
<sup>1</sup> Depth (inches) vs. Depth increment (ft.) for composite samples:			
0-12 inches	1 foot		
12-24 inches	2 feet		
60-72 inches	6 feet		



D. Crop Monitoring

The Permittee shall perform crop monitoring on each field once per harvest. Composite samples will be comprised of at least ten (10) random samples collected from each center-pivot field.

Parameter	Units
Crop production	dry tons/ac
Moisture content	%
Crude protein	%
Total Kjeldahl Nitrogen	%
NO <sub>3</sub> (as N)	mg/Kg (dry wt)
Total-P (as P)	%
Sodium	mg/Kg (dry wt)
Magnesium	"
Potassium	"
Calcium	"

E. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Ground water sampling shall conform to the latest protocols in the *Implementation Guidance for the Ground Water Quality Standards*, (Ecology 1996).

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

All soil analysis and reporting will be in accordance with *Laboratory Procedures*, Soil Testing Laboratory, Washington State University, November 1981.

Sludge monitoring requirements specified in this permit shall be conducted according to test procedures specified in 40 CFR Part 503.

F. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

G. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, pH and internal process control parameters are exempt from this requirement. pH shall be accredited if the laboratory must otherwise be registered or accredited.

Crop and soil testing have not been included in the accreditation program. Crop and soil data shall be provided by a reputable agricultural laboratory proficiency testing program.

**S4. REPORTING AND RECORDKEEPING REQUIREMENTS**

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during the previous month shall be summarized and reported on a form provided, or otherwise approved, by the Department, and be received no later than the 15th day of the month following the completed reporting period, unless otherwise specified in this permit. Priority pollutant analysis data shall be submitted no later than 45 days following the reporting period. The report(s) shall be sent to the Department of Ecology, 4601 N. Monroe Street, Spokane, Washington 99205. Copies of the report(s) shall also be sent to the U.S. Department of Interior, Bureau of Reclamation, P.O. Box 815, Ephrata, WA 98823.

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of three years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director.

The Permittee shall retain all records pertaining to the monitoring of sludge for a minimum of five years.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2. of this permit, then the results of this monitoring shall be included in calculation and reporting of the data submitted in the Permittee's self-monitoring reports.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the permit terms and conditions due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;
2. Repeat sampling and analysis of any violation and submit the results to the Department within 30 days after becoming aware of the violation;
3. Immediately notify the Department and the Bureau of Reclamation of the failure to comply; and
4. Submit a detailed written report to the Department within thirty days, unless requested earlier by the Department, describing the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of the resampling, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

F. Maintaining a Copy of This Permit

A copy of this permit shall be kept at the treatment plant and be made available to the public or Ecology inspectors.

**S5. FACILITY LOADING**

A. Design Criteria

Flows or waste loadings of the following design criteria for the permitted treatment facility shall not be exceeded:

Average flow for the maximum month:	0.25 MGD
BOD <sub>5</sub> loading for maximum month:	385 lbs/day
TSS loading for maximum month:	385 lbs/day

B. Plans for Maintaining Adequate Capacity

When the actual flow or wasteload reaches 85 percent of any one of the design criteria in S4.A. for three consecutive months, or when the projected increases would reach design capacity within five years, whichever occurs first, the Permittee shall submit to the Department, a plan and a schedule for continuing to maintain capacity at the facility sufficient to achieve the effluent limitations and other conditions of this permit. This plan shall address any of the following actions or any others necessary to meet this objective.

1. Analysis of the present design including the introduction of any process modifications that would establish the ability of the existing facility to achieve the effluent limits and other requirements of this permit at specific levels in excess of the existing design criteria specified in paragraph A above.
2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system.
3. Limitation on future sewer extensions or connections or additional wasteloads.
4. Modification or expansion of facilities necessary to accommodate increased flow or wasteload.
5. Reduction of industrial or commercial flows or waste loads to allow for increasing sanitary flow or wasteload.

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by the Department prior to any construction. The plan shall specify any contracts, ordinances, methods for financing, or other arrangements necessary to achieve this objective.

C. Wasteload Assessment

The Permittee shall conduct an annual assessment of their flow and waste load and submit a report to the Department by April 1, 2007, and annually thereafter. The report shall contain the following: an indication of compliance or noncompliance with the permit effluent limitations; a comparison between the existing and design monthly average dry weather and wet weather flows, peak flows, BOD, and total suspended solids loadings; and (except for the first report) the percentage increase in these parameters since the last annual report. The report shall also state the present and design population or population equivalent, projected population growth rate, and the estimated date upon which the design capacity is projected to be reached, according to the most restrictive of the parameters above. The interval for review and reporting may be modified if the Department determines that a different frequency is sufficient.

**S6. OPERATION AND MAINTENANCE**

The Permittee shall at all times be responsible for the proper operation and maintenance of any facilities or systems of control installed to achieve compliance with the terms and conditions of the permit.

A. Certified Operator

An operator certified for at least a Class I plant by the State of Washington shall be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified for at least a Class I plant shall be in charge during all regularly scheduled shifts.

B. O & M Program

The Permittee shall institute an adequate operation and maintenance program for their entire sewage system. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records shall clearly specify the frequency and type of maintenance recommended by the manufacturer and shall show the frequency and type of maintenance performed. These maintenance records shall be available for inspection at all times.

C. Short-term Reduction

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limitations on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee shall give written notification to the Department and the Bureau of Reclamation, if possible, 30 days prior to such activities, detailing the reasons for, length of time of, and the potential effects of the reduced level of treatment. This notification does not relieve the Permittee of their obligations under this permit.

D. Electrical Power Failure

The Permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations either by means of alternate power sources, standby generator, or retention of inadequately treated wastes.

E. Prevent Connection of Inflow

The Permittee shall strictly enforce their sewer ordinances and not allow the connection of inflow (roof drains, foundation drains, etc.) to the sanitary sewer system.

F. Bypass Procedures

The Permittee shall immediately notify the Department and the Bureau of Reclamation of any spill, overflow, or bypass from any portion of the collection or treatment system.

The bypass of wastes from any portion of the collection or treatment system is prohibited unless one of the following conditions (1, 2, or 3) applies:

1. Unavoidable Bypass -- Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

If the resulting bypass from any portion of the treatment system results in noncompliance with this permit the Permittee shall notify the Department in accordance with condition S3.E "Noncompliance Notification."

2. Anticipated Bypass That Has the Potential to Violate Permit Limits or Conditions -- Bypass is authorized by an administrative order issued by the Department. The Permittee shall notify the Department at least 30 days before the planned date of bypass. The notice shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Department will consider the following prior to issuing an administrative order:
  - a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of the permit.
  - b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.

- c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, the Department will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible.

Approval of a request to bypass will be by administrative order issued by the Department under RCW 90.48.120.

3. Bypass For Essential Maintenance Without the Potential to Cause Violation of Permit Limits or Conditions - Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of the permit, or adversely impact public health as determined by the Department prior to the bypass.

G. Operations and Maintenance Manual

The O&M Manual shall be reviewed by the Permittee at least annually. The Permittee shall confirm the review by letter and/or a manual update to the Department. All manual changes or updates shall be submitted to the Department whenever they are incorporated into the manual. The approved operation and maintenance manual shall be kept available at the treatment plant.

The operation and maintenance manual shall contain the treatment plant process control monitoring schedule. All operators shall follow the instructions and procedures of this manual.

H. Irrigation Land Application

1. There shall be no runoff of wastewater applied to land by spray irrigation to any surface waters of the state or to any land not owned by or under control of the Permittee.
2. The Bureau of Reclamation office shall be notified immediately of any runoff that is allowed to enter the East Low Canal, (509) 7584-0254. This notice shall be followed up with a written report within 15 days. (P.O. Box 815, Ephrata, WA 98823)
3. The Permittee shall sample any runoff that enters the East Low Canal for the parameters listed in Condition S2. A and B.
4. The Permittee shall use recognized good practices, and all available and reasonable procedures to control odors from the land application system. When notified by the Department, the Permittee shall implement measures to reduce odors to a reasonable minimum.
5. The wastewater shall not be applied to the irrigation lands in quantities that:

- a. Significantly reduce or destroy the long-term infiltration rate of the soil.
  - b. Cause long-term anaerobic conditions in the soil.
  - c. Cause ponding of wastewater and produce objectionable odors or support insects or vectors.
  - d. Cause leaching losses of constituents of concern beyond the treatment zone or in excess of the approved design. Constituents of concern are constituents in the wastewater, partial decomposition products, or soil constituents that would alter ground water quality in amounts that would affect current and future beneficial uses.
6. The Permittee shall maintain all irrigation agreements for lands not owned for the duration of the permit cycle. Any reduction in irrigation lands by termination of any irrigation agreements may result in permit modification or revocation. The Permittee shall immediately inform the Department in writing of any proposed changes to existing agreements.

## **S7. RESIDUAL SOLIDS**

Residual solids include screenings, grit, scum, primary sludge, waste activated sludge and other solid waste. The Permittee shall store and handle all residual solids in such a manner so as to prevent their entry into state ground or surface waters. The Permittee shall not discharge leachate from residual solids to state surface or ground waters.

## **S8. PRETREATMENT**

The Permittee shall work cooperatively with the Department to ensure that all commercial and industrial users of the wastewater treatment system are in compliance with pretreatment regulations.

### **A. Discharge Authorization Required**

Significant commercial or industrial operations shall not be allowed to discharge wastes to the Permittee's sewerage system until they have received prior authorization from the Department in accordance with Chapter 90.48 RCW and Chapter 173-216 WAC, as amended. The Permittee shall immediately notify the Department of any proposed new sources of wastewater from significant commercial or industrial operations.

### **B. Prohibitions**

A non-domestic discharger may not introduce into the Permittee's sewerage system any pollutant(s) that cause pass through or interference.

The following non-domestic discharges shall not be discharged into the Permittee's sewerage system.



1. Pollutants that create a fire or explosion hazard in the domestic wastewater facilities (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
2. Pollutants that will cause corrosive structural damage to the domestic wastewater facilities, but in no case discharges with pH lower than 5.0 standard units or greater than 11.0 standard units, unless the works are specifically designed to accommodate such discharges.
3. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the POTW.
4. Any pollutant, including oxygen demanding pollutants, (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
5. Heat in amounts that will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities such that the temperature at the POTW exceeds 40°C (104°F) unless the Department, upon request of the Permittee, approves, in writing, alternate temperature limits.
6. Petroleum oil, non-biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity which may cause acute worker health and safety problems.
8. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
9. As provided by WAC 173-303-071(3)(a), discharges of dangerous wastes into the sewerage system by industrial or commercial users are prohibited unless the discharger has submitted an application for a State Waste Discharge Permit. The applicant must accurately describe the wastewater on a State Waste Discharge Permit Application for Industrial Discharges to a POTW (Ecology Form 040-177).
10. Noncontact cooling water in significant volumes.
11. Stormwater, and other direct inflow sources.
12. Wastewaters significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the system.

C. Notification of Industrial User Violations

The Permittee shall notify the Department if any non-domestic user violates the prohibitions listed in S7.B above.

D. Industrial User Survey

The Permittee shall perform an industrial user survey, or other activities (e.g., sewer use ordinance and local limits development), which are necessary for the proper administration of the state pretreatment program. The Survey will be submitted to the Department by June 30, 2009.

E. Local Sewer Ordinance

The Permittee shall update or develop a sewer ordinance and submit to the Department by June 30, 2009.

**S9. IRRIGATION AND CROP MANAGEMENT PLAN**

An Irrigation and Crop Management Plan shall be submitted once for this permit on April 1, 2009, for Department review. The plan shall generally conform with *Guidelines for Preparation of Engineering Reports for Industrial Wastewater Land Application Systems*, Ecology 1993. The plan must be prepared by a soil scientist. The plan shall include the following elements:

A. Annual Summary of Farm Operations for Previous Year

This summary shall include:

1. For each crop grown, the total acreage and quantity harvested.
2. Calculated balances for nutrients, salts, TDS, or other design limiting parameters. The calculations shall include crop consumptive use, process wastewater loadings of nutrients, salts, TDS or other design limiting parameters, and contributions from commercial fertilizers applied.
3. Calculated water balance. The calculations shall include irrigation system efficiency and application uniformity, the quantity of supplemental irrigation water and process wastewater applied, crop consumptive use, water stored in the soil profile outside the normal growing season, and salt leaching requirements.
4. Soil testing results. A summary of the soil testing results shall be submitted and discussed as part of the annual Irrigation and Crop Management Plan.

B. Cropping Schedule for Upcoming Year

This schedule shall include:

1. Crop Management. The proposed acreage for each crop, cultivation and harvesting requirements, expected crop yields, and methods for establishing a crop, and proposed schedule for herbicide, pesticide, and fertilizer application.
2. Irrigation Management. The frequency and timing of wastewater and supplemental irrigation water application (including harvest and non-harvest periods), and recommended rest cycles for wastewater application where organic or hydraulic loading is a concern.

## **GENERAL CONDITIONS**

### **G1. SIGNATORY REQUIREMENTS**

All applications, reports, or information submitted to the Department shall be signed as follows:

- A. All permit applications shall be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - 1. The authorization is made in writing by the person described above and is submitted to the Department at the time of authorization, and
  - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

### **G2. RIGHT OF ENTRY**

Representatives of the Department shall have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours; hours during which production, treatment, or discharge occurs; or times when the Department suspects a violation requiring immediate inspection. Representatives of the Department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

**G3. PERMIT ACTIONS**

This permit shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

**G4. REPORTING A CAUSE FOR MODIFICATION**

The Permittee shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least 60 days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

**G5. NOTIFICATION OF NEW OR ALTERED SOURCES**

The Permittee shall submit written notice to the Department whenever any new discharge or increase in volume or change in character of an existing discharge into the sewer is proposed which: (1) would interfere with the operation of, or exceed the design capacity of, any portion of the collection or treatment system; (2) would increase the total system flow or influent waste loading by more than 10 percent; (3) is not part of an approved general sewer plan or approved plans and specifications; or would be subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act. This notice shall include an evaluation of the system's ability to adequately transport and treat the added flow and/or wasteload.

**G6. PLAN REVIEW REQUIRED**

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

**G7. COMPLIANCE WITH OTHER LAWS AND STATUTES**

Nothing in the permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

**G8. DUTY TO REAPPLY**

The Permittee must apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

**G9. PAYMENT OF FEES**

The Permittee shall submit payment of fees associated with this permit as assessed by the Department. The Department may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

**G10. PENALTIES FOR VIOLATING PERMIT CONDITIONS**

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.